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NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
NEWS	3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	4	Apr 09	ZDB will be removed from STN
NEWS	5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	9	Jun 03	New e-mail delivery for search results now available
NEWS	10	Jun 10	MEDLINE Reload
NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS	15	Jul 30	NETFIRST to be removed from STN
NEWS	16	Aug 08	CANCERLIT reload
NEWS	17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18	Aug 08	NTIS has been reloaded and enhanced
NEWS	19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
NEWS	24	Sep 16	Experimental properties added to the REGISTRY file
NEWS	25	Sep 16	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	26	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	27	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	28	Oct 21	EVENTLINE has been reloaded
NEWS	29	Oct 24	BEILSTEIN adds new search fields
NEWS	30	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	31	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS	32	Nov 18	DKILIT has been renamed APOLLIT
NEWS	33	Nov 25	More calculated properties added to REGISTRY
NEWS	34	Dec 02	TIBKAT will be removed from STN
NEWS	35	Dec 04	CSA files on STN
NEWS	36	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	37	Dec 17	TOXCENTER enhanced with additional content
NEWS	38	Dec 17	Adis Clinical Trials Insight now available on STN

NEWS 39 Dec 30 ISMEC no longer available

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,  
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002  
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NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

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L1 48 CYTOCHROME AND DESATURASE AND FUSION

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PROCESSING COMPLETED FOR L1  
L2 27 DUPLICATE REMOVE L1 (21 DUPLICATES REMOVED)

=> d l2 1-10

L2 ANSWER 1 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE  
1  
AN 2002:392645 BIOSIS  
DN PREV200200392645

TI A third fatty acid DELTA9- \*\*\*desaturase\*\*\* from *Mortierella alpina*  
 with a different substrate specificity to ole1p and ole2p.  
 AU MacKenzie, Donald A. (1); Carter, Andrew T.; Wongwathanarat, Prasert;  
 Eagles, John; Salt, Joanne; Archer, David B.  
 CS (1) Institute of Food Research, Norwich Research Park, Colney, Norwich,  
 NR4 7UA: donald.mackenzie@bbsrc.ac.uk UK  
 SO Microbiology (Reading), (June, 2002) Vol. 148, No. 6, pp. 1725-1735.  
 print.  
 ISSN: 1350-0872.  
 DT Article  
 LA English

L2 ANSWER 2 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2002:607983 BIOSIS  
 DN PREV200200607983  
 TI Altering specificity of a *Ricinus communis* \*\*\*cytochrome\*\*\* b5  
 \*\*\*fusion\*\*\* \*\*\*desaturase\*\*\* .  
 AU Michaelson, L. V. (1); Napier, J. A. (1)  
 CS (1) Long Ashton Research Station, IACR, Long Ashton, Bristol, BS41 9AF UK  
 SO Biochemical Society Transactions, (2002) Vol. 30, No. 5, pp. A123. print.  
 Meeting Info.: Biochemical Society 677th Meeting Wales, Cardiff, UK  
 December 07-10, 2002  
 ISSN: 0300-5127.  
 DT Conference  
 LA English

L2 ANSWER 3 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2002:607900 BIOSIS  
 DN PREV200200607900  
 TI Altering specificity of a *Ricinus communis* \*\*\*cytochrome\*\*\* b5  
 \*\*\*fusion\*\*\* \*\*\*desaturase\*\*\* .  
 AU Michaelson, L. V. (1); Napier, J. A. (1)  
 CS (1) Long Ashton Research Station, IACR, Long Ashton, Bristol, BS41 9AF UK  
 SO Biochemical Society Transactions, (2002) Vol. 30, No. 5, pp. A102. print.  
 Meeting Info.: Biochemical Society 677th Meeting Wales, Cardiff, UK  
 December 07-10, 2002  
 ISSN: 0300-5127.  
 DT Conference  
 LA English

L2 ANSWER 4 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 2001:780962 CAPLUS  
 DN 135:340221  
 TI Differentially expressed nucleic acids and their encoded proteins for the  
 therapy and diagnosis of human breast cancer  
 IN Jiang, Yuqiu; Dillon, Davin C.; Mitcham, Jennifer L.; Xu, Jiangchun;  
 Harlocker, Susan L.; Hepler, William T.  
 PA Corixa Corporation, USA  
 SO PCT Int. Appl., 297 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2001079286	A2	20011025	WO 2001-US12164	20010412
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				

CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,  
 HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,  
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,  
 RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,  
 VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002064872 A1 20020530 US 2000-604287 20000622  
 PRAI US 2000-551621 A 20000417  
 US 2000-590751 A 20000608  
 US 2000-604287 A 20000622  
 US 2000-620405 A 20000720

L2 ANSWER 5 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 2002:43345 CAPLUS  
 DN 136:319709  
 TI Transcriptional profiling reveals global defects in energy metabolism,  
 lipoprotein, and bile acid synthesis and transport with reversal by leptin  
 treatment in Ob/ob mouse liver  
 AU Liang, Chien-Ping; Tall, Alan R.  
 CS Division of Molecular Medicine, Department of Medicine, Columbia  
 University, New York, NY, 10032, USA  
 SO Journal of Biological Chemistry (2001), 276(52), 49066-49076  
 CODEN: JBCHA3; ISSN: 0021-9258  
 PB American Society for Biochemistry and Molecular Biology  
 DT Journal  
 LA English  
 RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 6 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 2001:473659 CAPLUS  
 DN 135:205729  
 TI Microarray analysis of the in vivo effects of hypophysectomy and growth  
 hormone treatment on gene expression in the rat  
 AU Flores-Morales, Amilcar; Stahlberg, Nina; Tollet-Egnell, Petra; Lundeborg,  
 Joakim; Malek, Renae L.; Quackenbush, John; Lee, Norman H.; Norstedt,  
 Gunnar  
 CS Department of Molecular Medicine, Karolinska Institute, Stockholm, 17176,  
 Swed.  
 SO Endocrinology (2001), 142(7), 3163-3176  
 CODEN: ENDOAO; ISSN: 0013-7227  
 PB Endocrine Society  
 DT Journal  
 LA English  
 RE.CNT 92 THERE ARE 92 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 7 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 2001:312014 CAPLUS  
 DN 136:64938  
 TI Toward elucidating the global gene expression patterns of developing  
 Arabidopsis: parallel analysis of 8 300 genes by a high-density  
 oligonucleotide probe array  
 AU Zhu, Tong; Budworth, Paul; Han, Bin; Brown, Devon; Chang, Hur-Song; Zou,  
 Guangzhou; Wang, Xun

CS Torrey Mesa Research Institute, Inc., San Diego, CA, 92121, USA  
 SO Plant Physiology and Biochemistry (Paris, France) (2001), 39(3-4), 221-242  
 CODEN: PPBIEX; ISSN: 0981-9428  
 PB Editions Scientifiques et Medicales Elsevier  
 DT Journal  
 LA English

RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 8 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 2000:241512 CAPLUS

DN 132:262126

TI Fatty acid \*\*\*desaturases\*\*\* of Mortierella and the genes encoding  
 them and their use in the preparation of polyunsaturated fatty acids for  
 food use

IN Mukerji, Pradip; Huang, Yung-Sheng; Parker-Barnes, Jennifer M.; Das, Tapas  
 PA Abbott Laboratories, USA

SO PCT Int. Appl., 170 pp.  
 CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2000020602	A2	20000413	WO 1999-US22686	19990929
	WO 2000020602	A3	20000817		
	W:		AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,		
			CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,		
			IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,		
			MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,		
			SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ,		
			BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,		
			DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,		
			CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
PRAI	US 1998-103110P	P	19981005		

L2 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 2000:53889 CAPLUS

DN 132:103752

TI Expression constructs for use in plant plastids using ribosome binding  
 sites that increase the efficiency of translation

IN McBride, Kevin E.; Staub, Jeffrey M.

PA Calgene LLC, USA

SO PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2000003017	A2	20000120	WO 1999-US15713	19990708
	WO 2000003017	A3	20000706		
	W:		CA, JP, MX		
	RW:		AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,		
			PT, SE		
	US 6271444	B1	20010807	US 1998-113690	19980710

CA 2333308 AA 20000120 CA 1999-2333308 19990708  
 EP 1095144 A2 20010502 EP 1999-933908 19990708  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, FI  
 JP 2002520022 T2 20020709 JP 2000-559238 19990708  
 PRAI US 1998-113690 A 19980710  
 WO 1999-US15713 W 19990708

L2 ANSWER 10 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 2000:645718 CAPLUS

DN 133:248062

TI Human fatty acid \*\*\*desaturases\*\*\* and cDNAs and their use in  
 diagnosis and therapy

IN Weber, Bernhard H. F.; Marquardt, Andreas

PA Multigene Biotech G.m.b.H., Germany

SO Eur. Pat. Appl., 72 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1035207	A1	20000913	EP 1999-104664	19990309
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	WO 2000053770	A1	20000914	WO 2000-EP1979	20000307
	W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, TZ, UA, US, UZ, VN, YU, ZA				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRAI EP 1999-104664 A 19990309

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 11-20

L2 ANSWER 11 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE  
 2

AN 2001:185829 BIOSIS

DN PREV200100185829

TI Further characterization of DELTA8-sphingolipid \*\*\*desaturases\*\*\* from  
 higher plants.

AU Sperling, P.; Blume, A.; Zaehring, U.; Heinz, E. (1)

CS (1) Institut fuer Allgemeine Botanik, Universitaet Hamburg, Ohnhorststr.  
 18, 22609, Hamburg: eheinze@botanik.uni-hamburg.de Germany

SO Biochemical Society Transactions, (December, 2000) Vol. 28, No. 6, pp.  
 638-641. print.

ISSN: 0300-5127.

DT Article

LA English

SL English

L2 ANSWER 12 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE

- AN 2001:186330 BIOSIS  
DN PREV200100186330  
TI Mutagenesis of the borage DELTA6 fatty acid \*\*\*desaturase\*\*\*  
AU Sayanova, O.; Beaudoin, F.; Libisch, B.; Shewry, P.; Napier, J. (1)  
CS (1) IACR-Long Ashton Research Station, Department of Agricultural Sciences, University of Bristol, Long Ashton, Bristol, BS41 9AF: olga.sayanova@bbsrc.ac.uk UK  
SO Biochemical Society Transactions, (December, 2000) Vol. 28, No. 6, pp. 636-638. print.  
ISSN: 0300-5127.  
DT Article  
LA English  
SL English
- L2 ANSWER 13 OF 27 CAPLUS COPYRIGHT 2003 ACS  
AN 2000:548840 CAPLUS  
DN 133:146377  
TI Fatty acid desaturation system and \*\*\*fusion\*\*\* enzyme  
AU Aki, Tsunehiro; Ono, Kazuhisa; Suzuki, Osamu  
CS Grad. Sch. Adv. Sci. Matter, Hiroshima Univ., Japan  
SO Kagaku to Seibutsu (2000), 38(8), 520-527  
CODEN: KASEAA; ISSN: 0453-073X  
PB Gakkai Shuppan Senta  
DT Journal; General Review  
LA Japanese
- L2 ANSWER 14 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE  
4  
AN 2000:346816 BIOSIS  
DN PREV2000000346816  
TI cDNA cloning, genomic structure, and chromosomal localization of three members of the human fatty acid \*\*\*desaturase\*\*\* family.  
AU Marquardt, Andreas; Stoehr, Heidi; White, Karen; Weber, Bernhard H. F. (1)  
CS (1) Biozentrum, Institut fuer Humangenetik, Am Hubland, D-97074, Wuerzburg Germany  
SO Genomics, (June, 2000) Vol. 66, No. 2, pp. 175-183. print.  
ISSN: 0888-7543.  
DT Article  
LA English  
SL English
- L2 ANSWER 15 OF 27 CAPLUS COPYRIGHT 2003 ACS  
AN 2000:64278 CAPLUS  
DN 132:247747  
TI Mammalian .DELTA.-6 fatty acid \*\*\*desaturase\*\*\* : molecular cloning and physiological significance  
AU Aki, Tsunehiro; Ono, Kazuhisa; Suzuki, Osamu  
CS Department of Molecular Biotechnology, Graduate School of Advanced Sciences of Matter, Hiroshima University, Kagamiyama, Higashi-Hiroshima-shi, Hiroshima-ken, 739-8527, Japan  
SO Nihon Yukagakkaishi (2000), 49(1), 3-10  
CODEN: NIYUFC; ISSN: 1341-8327  
PB Nihon Yukagaku Gakkai  
DT Journal; General Review  
LA Japanese

L2 ANSWER 16 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 1999:673070 CAPLUS  
 DN 131:307676  
 TI Method of producing plants which are tolerant or resistant to herbicides  
 that inhibit 4-Hydroxyphenylpyruvate dioxygenase  
 IN Shipton, Catherine Ann; Bryan, Ian Bennett  
 PA Zeneca Limited, UK  
 SO PCT Int. Appl., 24 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9953081	A1	19991021	WO 1999-GB1059	19990407
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG CA 2321965 AA 19991021 CA 1999-2321965 19990407 AU 9934298 A1 19991101 AU 1999-34298 19990407 BR 9909501 A 20001212 BR 1999-9501 19990407 EP 1078084 A1 20010228 EP 1999-915871 19990407 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI JP 2002511274 T2 20020416 JP 2000-543628 19990407 PRAI GB 1998-7818 A 19980409 WO 1999-GB1059 W 19990407				
RE.CNT	6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L2 ANSWER 17 OF 27 AGRICOLA DUPLICATE 5  
 AN 2000:46448 AGRICOLA  
 DN IND22045086  
 TI Two fatty acid delta9- \*\*\*desaturase\*\*\* genes, ole1 and ole2, from  
 Mortierella alpina complement the yeast ole1 mutation.  
 AU Wongwathanarat, P.; Michaelson, L.V.; Carter, A.T.; Lazarus, C.M.;  
 Griffiths, G.; Stobart, A.K.; Archer, D.B.; MacKenzie, D.A.  
 CS Institute of Food Research, Norwich, UK.  
 SO Microbiology, Oct 1999. Vol. 145, No. pt.10. p. 2939-2946  
 Publisher: Reading, U.K. : Society for General Microbiology, c1994-  
 CODEN: MROBEO; ISSN: 1350-0872  
 NTE Includes references  
 CY England; United Kingdom  
 DT Article  
 FS Non-U.S. Imprint other than FAO  
 LA English

L2 ANSWER 18 OF 27 AGRICOLA  
 AN 1999:34103 AGRICOLA  
 DN IND21982410  
 TI A growing family of \*\*\*cytochrome\*\*\* b5-domain \*\*\*fusion\*\*\*



proteins.

AU Napier, J.A.; Sayanova, O.; Sperling, P.; Heinz, E.  
CS University of Bristol, Long Ashton, Bristol, UK.  
AV DNAL (QK1.T74)  
SO Trends in plant science, Jan 1999. Vol. 4, No. 1. p. 2-4  
Publisher: Kidlington, Oxford : Elsevier Science, Ltd., c1996-  
ISSN: 1360-1385  
NTE Includes references  
CY England; United Kingdom  
DT Article  
FS Non-U.S. Imprint other than FAO  
LA English

L2 ANSWER 19 OF 27 AGRICOLA DUPLICATE 6  
AN 1999:10832 AGRICOLA  
DN IND21963594

TI A sphingolipid \*\*\*desaturase\*\*\* from higher plants. Identification of  
a new \*\*\*cytochrome\*\*\* b5 \*\*\*fusion\*\*\* protein.

AU Sperling, P.; Zahringer, U.; Heinz, E.  
CS Universitat Hamburg, Hamburg, Germany.  
AV DNAL (381 J824)  
SO The Journal of biological chemistry, Oct 30, 1998. Vol. 273, No. 44. p.  
28590-28596  
Publisher: Bethesda, Md. : American Society for Biochemistry and Molecular  
Biology.  
CODEN: JBCHA3; ISSN: 0021-9258  
NTE Includes references  
CY Maryland; United States  
DT Article  
FS U.S. Imprints not USDA, Experiment or Extension  
LA English

L2 ANSWER 20 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1998:338414 BIOSIS  
DN PREV199800338414

TI \*\*\*Cytochrome\*\*\* b5 \*\*\*fusion\*\*\* proteins: A new class of higher  
plant fatty acid \*\*\*desaturases\*\*\* .

AU Napier, J. A. (1); Sayanova, O. (1); Lacey, D. J. (1); Beaudoin, F.;  
Shewry, P. R. (1); Stobart, A. K.  
CS (1) IACR-Long Ashton Res. Station, Bristol UK  
SO Journal of Experimental Botany, (May, 1998) Vol. 49, No. SUPPL., pp. 15.  
Meeting Info.: The Society for Experimental Biology Annual Meeting London,  
England, UK March 22-27, 1998 Society for Experimental Biology  
. ISSN: 0022-0957.  
DT Conference  
LA English

=> d 12 20-27

L2 ANSWER 20 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1998:338414 BIOSIS  
DN PREV199800338414

TI \*\*\*Cytochrome\*\*\* b5 \*\*\*fusion\*\*\* proteins: A new class of higher  
plant fatty acid \*\*\*desaturases\*\*\* .

AU Napier, J. A. (1); Sayanova, O. (1); Lacey, D. J. (1); Beaudoin, F.;  
Shewry, P. R. (1); Stobart, A. K.

CS (1) IACR-Long Ashton Res. Station, Bristol UK  
SO Journal of Experimental Botany, (May, 1998) Vol. 49, No. SUPPL., pp. 15.  
Meeting Info.: The Society for Experimental Biology Annual Meeting London,  
England, UK March 22-27, 1998 Society for Experimental Biology  
. ISSN: 0022-0957.

DT Conference  
LA English

L2 ANSWER 21 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 1998:46304 BIOSIS

DN PREV199800046304

TI A new class of \*\*\*cytochrome\*\*\* b5 \*\*\*fusion\*\*\* proteins.

AU Napier, Johnathan A. (1); Sayanova, Olga; Stobart, A. Keith; Shewry, Peter R.

CS (1) IACR-Long Ashton Res. Station, Dep. Agricultural Sci., Univ. Bristol,  
Long Ashton, Bristol BS18 9AF UK

SO Biochemical Journal, (Dec. 1, 1997) Vol. 328, No. 2, pp. 717-718.  
ISSN: 0264-6021.

DT Letter; Article  
LA English

L2 ANSWER 22 OF 27 AGRICOLA

DUPLICATE 7

AN 1998:31359 AGRICOLA

DN IND20815362

TI Fahlp, a *Saccharomyces cerevisiae* \*\*\*cytochrome\*\*\* b5 \*\*\*fusion\*\*\*  
protein, and its *Arabidopsis thaliana* homolog that lacks the  
\*\*\*cytochrome\*\*\* b5 domain both function in the alpha-hydroxylation of  
sphingolipid-associated very long chain fatty acids.

AU Mitchell, A.G.; Martin, C.E.

AV DNAL (381 J824)

SO The Journal of biological chemistry, Nov 7, 1997. Vol. 272, No. 45. p.  
28281-28288

Publisher: Bethesda, Md. : American Society for Biochemistry and Molecular  
Biology.

CODEN: JBCHA3; ISSN: 0021-9258

NTE Includes references

CY Maryland; United States

DT Article

FS U.S. Imprints not USDA, Experiment or Extension

LA English

L2 ANSWER 23 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 1997:805379 CAPLUS

DN 128:164157

TI A new class of \*\*\*cytochrome\*\*\* b5 \*\*\*fusion\*\*\* proteins

AU Napier, Johnathan A.; Sayanova, Olga; Stobart, A. Keith; Shewry, Peter R.

CS IACR-Long Ashton Research Station, Department of Agricultural Sciences,  
University of Bristol, Long Ashton, BS18 9AF, UK

SO Biochemical Journal (1997), 328(2), 717-718

CODEN: BIJOAK; ISSN: 0264-6021

PB Portland Press Ltd.

DT Journal; General Review

LA English

L2 ANSWER 24 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE  
8

AN 1995:499902 BIOSIS

DN PREV199598523452  
 TI A \*\*\*cytochrome\*\*\* -b-5-containing \*\*\*fusion\*\*\* protein similar to  
 plant acyl lipid \*\*\*desaturases\*\*\*  
 AU Sperling, Petra; Schmidt, Hermann; Heinz, Ernst (1)  
 CS (1) Inst. Allgemeine Botanik, Univ. Hamburg, Ohnhorststr. 18, D-22609  
 Hamburg Germany  
 SO European Journal of Biochemistry, (1995) Vol. 232, No. 3, pp. 798-805.  
 ISSN: 0014-2956.  
 DT Article  
 LA English

L2 ANSWER 25 OF 27 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.  
 AN 94341510 EMBASE  
 DN 1994341510  
 TI Suppression of the hydrazine-induced formation of megamitochondria in the  
 rat liver by .alpha.-tocopherol.  
 AU Antosiewicz J.; Nishizawa Y.; Liu X.; Usukura J.; Wakabayashi T.  
 CS Department of Bioenergetics, Academy of Physical Education, Wiejska  
 1,80-336 Gdansk-Oliwa, Poland  
 SO Experimental and Molecular Pathology, (1994) 60/3 (173-187).  
 ISSN: 0014-4800 CODEN: EXMPA6  
 CY United States  
 DT Journal; Article  
 FS 005 General Pathology and Pathological Anatomy  
 029 Clinical Biochemistry  
 048 Gastroenterology  
 052 Toxicology  
 037 Drug Literature Index  
 LA English  
 SL English

L2 ANSWER 26 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE  
 9  
 AN 1991:49043 BIOSIS  
 DN BA91:27324  
 TI THE OLE1 GENE OF SACCHAROMYCES-CEREVISIAE ENCODES THE DELTA-9 FATTY ACID  
 \*\*\*DESATURASE\*\*\* AND CAN BE FUNCTIONALLY REPLACED BY THE RAT STEAROYL  
 COENZYME A \*\*\*DESATURASE\*\*\* GENE.  
 AU STUKEY J E; MCDONOUGH V M; MARTIN C E  
 CS NELSON BIOL. LAB., BUREAU BIOL. RES., RUTGERS UNIVERSITY, BUSCH CAMPUS,  
 PISCATAWAY, N.J. 08855-1059.  
 SO J BIOL CHEM, (1990) 265 (33), 20144-20149.  
 CODEN: JBCHA3. ISSN: 0021-9258.  
 FS BA; OLD  
 LA English

L2 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2003 ACS  
 AN 1979:182260 CAPLUS  
 DN 90:182260  
 TI The role of lipid in stearyl CoA desaturation  
 AU Holloway, P. W.; Roseman, M.; Calabro, A.  
 CS Dep. Biochem., Univ. Virginia, Charlottesville, VA, USA  
 SO Advances in Experimental Medicine and Biology (1977), 83(Funct. Biosynth.  
 Lipids), 23-33  
 CODEN: AEMBAP; ISSN: 0065-2598  
 DT Journal  
 LA English

=> d 20-24 ab

L2 ANSWER 20 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

L2 ANSWER 21 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

L2 ANSWER 22 OF 27 AGRICOLA DUPLICATE 7

L2 ANSWER 23 OF 27 CAPLUS COPYRIGHT 2003 ACS

AB Database searches and review of the literature reveal a new class of  
\*\*\*cytochrome\*\*\* b5 domain-contg. redox active enzymes. Examples  
include fatty acid .DELTA.6- \*\*\*desaturase\*\*\* , L-lactate dehydrogenase,  
nitrate reductase, fatty acid .DELTA.9- \*\*\*desaturase\*\*\* , and ceramide  
hydroxylase. Direct and genetic complementation expts. suggest that the  
\*\*\*cytochrome\*\*\* b5 domain is a functional redox active heme binding  
site.

L2 ANSWER 24 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. DUPLICATE  
8

AB The similarity between oleate and linoleate \*\*\*desaturase\*\*\* sequences  
from several plants was used to construct degenerate oligonucleotide  
primers for PCR experiments with cDNA transcribed from mRNA of ripening  
sunflower embryos. A DNA fragment was amplified and sequenced. Specific  
primers derived from this partial sequence were used for rapid  
amplification of the 3'- and 5'-ends of this cDNA. With appropriate  
primers derived from these sequences, a full-length clone of 1377 bp was  
amplified by PCR which, after sequencing, showed an open reading frame of  
458 amino acids corresponding to a putative protein of about 52 kDa.  
Comparison with other \*\*\*desaturases\*\*\* showed the conserved three  
histidine boxes and the characteristic hydropathy profile of  
membrane-bound \*\*\*desaturases\*\*\* , but the amino acid identity was  
restricted to 18% and the N-terminal region was about 100 amino acids  
longer. This N-terminal extension showed high similarity with  
\*\*\*cytochrome\*\*\* b, and, accordingly, the whole sequence can be  
considered as coding for a \*\*\*fusion\*\*\* protein between  
\*\*\*cytochrome\*\*\* b, and a \*\*\*desaturase\*\*\* -like enzyme.

Furthermore,

we detected a similar \*\*\*cytochrome\*\*\* b, fold in the previously  
sequenced DELTA-9 acyl-CoA \*\*\*desaturase\*\*\* from yeast, but in this  
enzyme it was located at the C-terminus. An alignment of these  
\*\*\*fusion\*\*\* proteins with other heme-binding proteins revealed  
\*\*\*desaturases\*\*\* to be novel members of the \*\*\*cytochrome\*\*\* b,  
superfamily. A truncated DNA representing 366 bp of the 5'-end was  
amplified from the cDNA clone and expressed in Escherichia coli. The  
truncated cDNA coded for a soluble protein of about 12 kDa as shown by  
SDS/PAGE and N-terminal sequencing. The enriched recombinant protein  
exhibited redox absorbance spectra characteristic of plant microsomal  
\*\*\*cytochrome\*\*\* b-5.

<-----User Break----->

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	ENTRY	SESSION
FULL ESTIMATED COST	2.71	73.25

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	ENTRY	SESSION
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	ENTRY	SESSION
FULL ESTIMATED COST	0.18	73.43

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.65

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NEWS	3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	4	Apr 09	ZDB will be removed from STN
NEWS	5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	9	Jun 03	New e-mail delivery for search results now available
NEWS	10	Jun 10	MEDLINE Reload
NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS	15	Jul 30	NETFIRST to be removed from STN
NEWS	16	Aug 08	CANCERLIT reload
NEWS	17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18	Aug 08	NTIS has been reloaded and enhanced
NEWS	19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
NEWS	24	Sep 16	Experimental properties added to the REGISTRY file
NEWS	25	Sep 16	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	26	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	27	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	28	Oct 21	EVENTLINE has been reloaded
NEWS	29	Oct 24	BEILSTEIN adds new search fields
NEWS	30	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	31	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS	32	Nov 18	DKILIT has been renamed APOLLIT
NEWS	33	Nov 25	More calculated properties added to REGISTRY
NEWS	34	Dec 02	TIBKAT will be removed from STN
NEWS	35	Dec 04	CSA files on STN
NEWS	36	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	37	Dec 17	TOXCENTER enhanced with additional content

NEWS 38 Dec 17 Adis Clinical Trials Insight now available on STN  
NEWS 39 Dec 30 ISMEC no longer available

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,  
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002  
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NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
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FULL ESTIMATED COST	0.21	0.21

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=> s codon(w)optimization and plant

L1 12 CODON(W) OPTIMIZATION AND PLANT

=> s l1 and problem

L2 0 L1 AND PROBLEM

=> duplicate remove l1

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PROCESSING COMPLETED FOR L1

L3 9 DUPLICATE REMOVE L1 (3 DUPLICATES REMOVED)

=> d l3 1-9

L3 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2003 ACS  
 AN 2002:869043 CAPLUS  
 DN 137:366673  
 TI Transgenic \*\*\*plants\*\*\* carrying a foreign anthranilate synthase gene  
 with increased tissue tryptophan content  
 IN Weaver, Lisa M.; Liang, Jihong; Chen, Ridong; Jeong, Soon Seog; Mitsky,  
 Timothy; Slater, Steven; Rapp, William  
 PA Renessen LLC, USA; Monsanto Company  
 SO PCT Int. Appl., 291 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002090497	A2	20021114	WO 2002-US14207	20020503
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2001-288904P	P	20010504		

L3 ANSWER 2 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2002:502153 BIOSIS  
 DN PREV200200502153  
 TI Gene optimization is necessary to express a bivalent anti-human anti-T  
 cell immunotoxin in Pichia pastoris.  
 AU Woo, Jung Hee; Liu, Yuan Yi; Mathias, Askale; Stavrou, Scott; Wang,  
 Zhirui; Thompson, Jerry; Neville, David M., Jr. (1)  
 CS (1) Section on Biophysical Chemistry, Laboratory of Molecular Biology,  
 National Institute of Mental Health, 36 Convent Drive, 36 RM 1B08,  
 Bethesda, MD, 20892-4034: davidn@helix.nih.gov USA  
 SO Protein Expression and Purification, (July, 2002) Vol. 25, No. 2, pp.  
 270-282. <http://www.academicpress.com/pep>. print.  
 ISSN: 1046-5928.  
 DT Article  
 LA English

L3 ANSWER 3 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2002:166349 BIOSIS  
 DN PREV200200166349  
 TI Genetically engineered human salivary histatin genes are functional in  
 Candida albicans: Development of a new system for studying histatin  
 candidacidal activity.  
 AU Baev, Didi; Li, Xuewei; Edgerton, Mira (1)  
 CS (1) Departments of Oral Biology, School of Dental Medicine, State  
 University of New York at Buffalo, 3435 Main Street, Main Street Campus,  
 Buffalo, NY, 14214: edgerto@buffalo.edu USA  
 SO Microbiology (Reading), (December, 2001) Vol. 147, No. 12, pp. 3323-3334.  
 print.  
 ISSN: 1350-0872.



DT Article  
 LA English

L3 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2003 ACS  
 AN 2001:724310 CAPLUS  
 DN 136:2680  
 TI Production of the Gram-positive *Sarcina ventriculi* pyruvate decarboxylase in *Escherichia coli*  
 AU Talarico, Lee A.; Ingram, Lonnie O.; Maupin-Furlow, Julie A.  
 CS Department of Microbiology and Cell Science, University of Florida, Gainesville, FL, 32611-0700, USA  
 SO Microbiology (Reading, United Kingdom) (2001), 147(9), 2425-2435  
 CODEN: MROBEO; ISSN: 1350-0872  
 PB Society for General Microbiology  
 DT Journal  
 LA English

RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2000:387637 BIOSIS  
 DN PREV200000387637  
 TI Optimizing heterologous expression in *Dictyostelium*: Importance of 5' codon adaptation.  
 AU Vervoort, Elisa B.; van Ravestein, Arno; van Peij, Noel N. M. E.; Heikoop, Judith C.; van Haastert, Peter J. M.; Verheijden, Gijs F.; Linskens, Maarten H. K. (1)  
 CS (1) Cell Engineering Facility GBB, University of Groningen, Nijenborgh 4, 9747 AG, Groningen Netherlands  
 SO Nucleic Acids Research, (May 15, 2000) Vol. 28, No. 10, pp. 2069-2074. print.  
 ISSN: 0305-1048.  
 DT Article  
 LA English  
 SL English

L3 ANSWER 6 OF 9 AGRICOLA DUPLICATE 1  
 AN 2001:870 AGRICOLA  
 DN IND22072392  
 TI The production of recombinant proteins in transgenic barley grains.  
 AU Horvath, H.; Huang, J.; Wong, O.; Kohl, E.; Okita, T.; Kannangara, C.G.; Von Wettstein, D.  
 SO Proceedings of the National Academy of Sciences of the United States of America, Feb 15, 2000. Vol. 97, No. 4. p. 1914-1919  
 Publisher: Washington, D.C. : National Academy of Sciences,  
 CODEN: PNASA6; ISSN: 0027-8424

NTE Includes references  
 CY District of Columbia; United States  
 DT Article; Conference  
 FS U.S. Imprints not USDA, Experiment or Extension  
 LA English

L3 ANSWER 7 OF 9 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2000:418353 BIOSIS  
 DN PREV200000418353  
 TI \*\*\*Codon\*\*\* \*\*\*optimization\*\*\* of xylanase gene *xynB* from the thermophilic bacterium *Dictyoglomus thermophilum* for expression in the

filamentous fungus *Trichoderma reesei*.  
 AU Te'o, Valentino S. J.; Cziferszky, Angela E.; Bergquist, Peter L.;  
 Nevalainen, K. M. Helena (1)  
 CS (1) Department of Biological Sciences, Macquarie University, Sydney, NSW,  
 2109 Australia  
 SO FEMS Microbiology Letters, (1 September, 2000) Vol. 190, No. 1, pp. 13-19.  
 print.  
 ISSN: 0378-1097.  
 DT Article  
 LA English  
 SL English

L3 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2003 ACS

AN 1997:315722 CAPLUS

DN 126:326886

TI Synthetic genes for .delta.-endotoxins optimized for expression in corn  
 and the construction of insect-resistant \*\*\*plants\*\*\*

IN Koziel, Michael G.; Desai, Nalini M.; Lewis, Kelly S.; Kramer, Vance C.;  
 Warren, Gregory W.; Evola, Stephen V.; Crossland, Lyle D.; Wright, Martha  
 S.; Merlin, Ellis J.; Launis, Karen L.; Rothstein, Steven J.; Bowman,  
 Cindy G.; Dawson, John L.; Dunder, Erik M.; Pace, Gary M.; Suttie, Janet  
 L.

PA Ciba-Geigy Corporation, USA

SO U.S., 214 pp., Cont.-in-part of U.S. Ser. No. 772,027, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5625136	A	19970429	US 1992-951715	19920925
	WO 9307278	A1	19930415	WO 1992-US8476	19921005
	W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
	AU 9227952	A1	19930503	AU 1992-27952	19921005
	EP 618976	A1	19941012	EP 1992-922321	19921005
	EP 618976	B1	20020807		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, SE				
	JP 07500012	T2	19950105	JP 1992-507123	19921005
	BR 9206578	A	19950411	BR 1992-6578	19921005
	HU 68261	A2	19950628	HU 1994-960	19921005
	HU 220294	B	20011128		
	RO 110263	B1	19951130	RO 1994-539	19921005
	EP 1209237	A2	20020529	EP 2002-1453	19921005
	EP 1209237	A3	20020731		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE				
	EP 1213356	A2	20020612	EP 2002-1448	19921005
	EP 1213356	A3	20020619		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE				
	AT 221916	E	20020815	AT 1992-922321	19921005
	US 6403865	B1	20020611	US 1995-438666	19950510
	US 5859336	A	19990112	US 1995-459448	19950602
	US 6018104	A	20000125	US 1995-459595	19950602
	US 6051760	A	20000418	US 1995-460408	19950602
	US 6075185	A	20000613	US 1995-459504	19950602

	US 6121014	A	20000919	US 1995-459444	19950602
	US 6320100	B1	20011120	US 2000-547422	20000411
PRAI	US 1991-772027	B2	19911004		
	US 1990-573105	A	19900824		
	US 1991-659433	A	19910225		
	US 1992-951715	A1	19920925		
	EP 1992-922321	A3	19921005		
	WO 1992-US8476	A	19921005		
	US 1993-8374	B1	19930125		
	US 1995-459504	A1	19950602		

L3 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2003 ACS

AN 1999:621399 CAPLUS

DN 131:210415

TI Recombinant preparation of pesticide protein by expression of synthetic chimeric gene cryIA(a) from Bacillus thuringiensis kurstaki strains HD-1 and HD-73

IN Guo, Sandui; Ni, Wanchao; Xu, Qiongfang

PA Biological Tech. Research Center, China Agricultural Sciences Academy, Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 91 pp.  
CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	CN 1134981	A	19961106	CN 1995-119563	19951228
	CN 1037913	B	19980401		
PRAI	CN 1995-119563		19951228		

=> s codon(w)optimization and transform? and plant

L4 4 CODON(W) OPTIMIZATION AND TRANSFORM? AND PLANT

=> d l4 1-4 ti

L4 ANSWER 1 OF 4 AGRICOLA

TI The production of recombinant proteins in transgenic barley grains.

L4 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

TI \*\*\*Codon\*\*\* optimization of xylanase gene xynB from the thermophilic bacterium Dictyoglomus thermophilum for expression in the filamentous fungus Trichoderma reesei.

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS

TI Transgenic \*\*\*plants\*\*\* carrying a foreign anthranilate synthase gene with increased tissue tryptophan content

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS

TI The production of recombinant proteins in transgenic barley grains

=> s codon(w)optimization and unpredictability

L5 0 CODON(W) OPTIMIZATION AND UNPREDICTABILITY

=> s codon(w)optimization and unexpected

L6 0 CODON(W) OPTIMIZATION AND UNEXPECTED

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	44.11	44.32

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